

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

1-7. (Canceled)

8. (New) A GMR sensor element, comprising:
eight GMR resistor elements arranged in a rotationally symmetrical positioning and connected to each other to form two Wheatstone full bridges.
9. (New) The GMR sensor element as recited in Claim 8, wherein the GMR resistor elements are interleaved.
10. (New) The GMR sensor element as recited in Claim 8, wherein the GMR resistor elements are structured in strip form.
11. (New) The GMR sensor element as recited in Claim 8, wherein each GMR resistor element of the Wheatstone full bridges is subdivided into two equally constructed halves having directions, of the GMR resistor elements that are structured in strip form, that are orthogonal to each other.
12. (New) The GMR sensor element as recited in Claim 8, wherein the GMR sensor element performs a determinate measurement of an angle of an outer magnetic field with respect to a magnetization of a reference layer over 360° .
13. (New) The GMR sensor element as recited in Claim 8, wherein the GMR resistor elements are situated at least approximately in one of circular fashion and octagonally.
14. (New) A method of using a GMR sensor element including eight GMR resistor elements arranged in a rotationally symmetrical positioning and connected to each other to form two Wheatstone full bridges, the method comprising one of:

using the GMR sensor element in an angle sensor for detecting an absolute position of one of:

one of a camshaft and a crankshaft in a motor vehicle in a camshaft-free engine having one of electrical and electrohydraulic valve timing,
a motor position of an electrically commutated motor, and
of a windshield wiper position; and
using the GMR sensor element in a steering angle sensor system in a motor vehicle.